

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: EDWARD R. GATES
WOLF, GREENFIELD & SACKS. P.C.
600 ATLANTIC AVENUE
BOSTON MA 02210

# PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

			(PCT Rule 71.1)
		Date of Mailing (day/month/year)	3 SEP 2002
Applicant's or agent's file reference		1	ORTANT NOTIFICATION
HO535/7010WO		IMP	ORIANI NOTIFICATION
International application No.	International filing dat	e (day/month/year)	Priority Date (day/month/year)
PCT/US00/20210	24 JULY 2000		22 JULY 1999
Applicant			
PERICOR SCIENCE, INC.			

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer
DAVID M. NAFF & Magles, Telephone No. (708) 508-0196



# **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HO585/7010WO	FOR FURTHER ACTION		ication of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/	month/year)	Priority date (day/month/year)		
PCT/US00/20210	24 JULY 2000		22 JULY 1999		
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.					
Applicant PERICOR SCIENCE, INC.					
Examining Authority and is  2. This REPORT consists of a  This report is also accombeen amended and are the	transmitted to the applicant total of sheets.  panied by ANNEXES, i.e., she e basis for this report and/or sh on 607 of the Administrative I	according to ets of the desc eets containing	ription, claims and/or drawings which have g rectifications made before this Authority.		
IV Lack of unity of  V Reasoned statemen citations and explaint documents of  VI Certain defects in the	rt nt of report with regard to no invention t under Article 35(2) with rega nations supporting such statem	ovelty, invent ard to novelty, ent	ive step or industrial applicability inventive step or industrial applicability;		
Date of submission of the demand		of completion	of this report		
Name and mailing address of the IPEA/ Commissioner of Patents and Tradems Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	arks	orized officer AVID M. NA hone No. (7	Bridgen J. (03) 308-0196		

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/20210

1. B	asis of	tne report 		
1. Witl	n regard	to the elements of the intern	ational application:*	
$\overline{\mathbf{x}}$	_	ernational application as		
느		scription:	5 ,	
X		1-82		as originally filed
		NONE		
			, filed with the letter of	
	pages		, filed with the letter of	
X	the cla	aims:		
لغنا	pages	83-93		, as originally filed
			, as amended (together with any	
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X		quence listing part of the	_	
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	the lan	guage of a translation fuguage of publication of guage of the translation fun	the international application (under Rule 48.3(b)) nished for the purposes of international preliminary examples of the purposes of international preliminary examples are the purposes of international preliminary examples.	under Rule 23.1(b)).
pre	liminary	examination was carried	r amino acid sequence disclosed in the international out on the basis of the sequence listing:	l application, the international
			••	
	filed to	gether with the internati	ional application in computer readable form.	
	furnish	ed subsequently to this	Authority in written form.	
$\overline{\Box}$	furnish	ed subsequently to this A	Authority in computer readable form.	
	The sta	tement that the subsequer ional application as filed	ntly furnished written sequence listing does not go b has been furnished.	eyond the disclosure in the
	The stat	tement that the information mished.	recorded in computer readable form is identical to the	writen sequence listing has
4. X	The an	nendments have resulted	in the cancellation of:	
	$X_{t}$	he description, pages	NONE	
	ਿਹਾ		NONE	
		he claims, Nos he drawings, sheets <del>/fig</del>		
, <u> </u>				
5.			some of) the amendments had not been made, since they	have been considered to go
in th and	icement : is report 70.17).	sheets which have been furni t as "originally filed" and	indicated in the Supplemental Box (Rule 70.2(c)).** shed to the receiving Office in response to an invitation un are not annexed to this report since they do not conta	in amendments (Rules 70.16
**Any	replacer	ment sheet containing such	amendments must be referred to under item 1 and any	nexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/20210

III.	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. Ti	1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been and will not be examined in respect of:					
×	the entire international application.					
	claims Nos					
	because:					
	the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify).					
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.					
X	no international search report has been established for said claims Nos. <u>1-73</u> .					
	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid uence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
	the written form has not been furnished or does not comply with the standard.					
	the computer readable form has not been furnished or does not comply with the standard.					

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/20210

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)			
Continuation of: Boxes I - VIII	Sheet 10		
CLASSIFICATION:  The International Patent Classification (IPC) and/or the National classification are as listed below:  IPC(7): A61K 38/43, 7/42, 38/46, 7/00, 9/14; C12N 11/02, 11/08, 11/06; C07K 17/02, 17/06, 17/08 and 59, 94.6, 401, 489; 435/177, 180, 181; 530/812, 815, 816	US Cl.: 424/94.1,		

# HOME COPY

# **REQUEST**

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

Form PCT/RO/101 (July 1998; reprint January 2000)

For re	ceiving Office use only
International Application	US 0 / 20210
International Filing Date	24 JUL 2000
PCTINIER	RNATIONAL Application"

	(if desired) (12 characters maximum)	
Box No. I TITLE OF INVENTION LINKAGE OF AGENTS TO TISSUE		
Box No. II APPLICANT		
Name and address: (Family name, followed by given name; for a legal entity, full offi address must include postal code and name of country. The count in this Box is the applicant's State (that is, country) of residence indicated below.)	try of the address indicated	
PERICOR SCIENCE, INC.	Telephone No.	
One Kendall Square Building 600, PMB 299	Facsimile No.	
Cambridge, Massachusetts 02139 United States of America	Teleprinter No.	
State (that is, country) of nationality: US	State (that is, country) of residence: US	
This person is applicant all designated all designated St	ates except the United States the States indicat	ed in
for the purposes of:  States the United States	of America of America only the Supplementa	l Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHE	R) INVENTOR(S)	
applicant's State (that is, country) of residence if no State of residence is indicated below.)  GREEN, Howard 82 Williston Street Brookline, Massachusetts 02146 United States of America	applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)	
State (that is, country) of nationality: US	State (that is, country) of residence: US	
his person is applicant all designated all designated	States except	cated in
for the purposes of: States the United Sta	ttes of America of America only the Supplement	ntal Box
X Further applicants and/or (further) inventors are indicated on a co		
Box No. IV AGENT OR COMMON REPRESENTATIVE;	The state of the s	
The person identified below is hereby/has been appointed to act on belof the applicant(s) before the competent International Authorities as:		sentative
Name and address: (Family name, followed by given name; for a legal designation. The address must include postal code	e and name of country.) 617 720-3500	
GATES, Edward R. Wolf, Greenfield & Sacks, P.C.	Facsimile No. 617 720-2441	
600 Atlantic Avenue Boston, Massachusetts 02210 United States of America	Teleprinter No.	
Address for correspondence		
	e is/has been appointed and the space above is used instead to ind	icate a
Form PCT/RO/101 (July 1998: reprint January 2000)	See Notes to the	request for



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Continuation of Box		1ER APPLICANTS AND/OR (F		<del></del> -	
· · · · ·	If none of the follow	ving sub-boxes is used, this sheet is no	t to be inc		
RANDO, Rob 60 Montvale 1	ust include postal code and name of the applicant's State (that is, countr port R. Road er, Massachusetts 02459	e; for a legal entity, full official designation. The country. The country of the address indicated in y) of residence if no State of residence is indicate	this Box	This person is:  applicant only  applicant and in  inventor only (If marked, do not fi	this check-box is
State (that is, countr.	y) of nationality: US	State (that is	, country)	of residence: US	
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Name and address:  State (that is, country) This person is applied the purposes of:	(Family name, followed by given maddress must include postal code a in this Box is the applicant's State (indicated below.)  y) of nationality: ant all designate States  (Family name, followed by given maddress must include postal code a in this Box is the applicant's State indicated below.)	ame: for a legal entity, full official designation. Indicate of country. The country of the address is (that is, country) of residence if no State of residence is no State of residence if no State of residence if no State of residence if no State of the United States of America anne; for a legal entity, full official designation, and name of country. The country of the address (that is, country) of residence if no State of residence is no State of residence if no State of residence is no Sta	The indicated noe is the indicated ence is	This person is:  applicant only applicant and inv inventor only (If marked, do not fit  of residence:  United States perica only This person is:  applicant only applicant and in inventor only (I)	ventor  (this check-box is fill in below.)  the States indicated in the Supplemental Box  ventor  (this check-box is fill in below.)
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Box	No. V	DESIGNATION OF STATES			
The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):					
Regio	onal Pater	nt ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	• •		,
Σ	AP	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya Republic of Tarzania, UG Uganda, ZW Zimbabwe, an of the PCT	, LS I d any	Lesotho, other St	MW Malawi, SD Sudan, SZ Swaziland, TZ United ate which is a Contracting State of the Harare Protocol and
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X		Cuba			Poland
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쓵	LC	Saint Lucia			
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X) obs. of	J LR lition to the	Liberia  designations made above the applicant also makes under R	إكا	CRD	M,TZ,MA,AG,MZ,DZ,BZ ther designations which would be permitted under the PCT except an
design	ation(s) ind	licated in the Sunnlemental Roy as being excluded from the so	one o	fthic ctate	ement. The applicant declares that these additional designations are

designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

	7	$\alpha \tau$ . $\circ \iota_{-} \circ \iota_{1}$
1. Date of actual receipt of the pupped de PCT/	PTO 2 4 JUL 2000	
Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		2. Drawings
Date of timely receipt of the required corrections under PCT Article 11(2)		received
5. International Searching Authority specified by the applicant: ISA / EP	6. Transmittal of search copy until search fee is paid	y delayed not received
	For International Bureau use only	
Date of receipt of the record copy by the International Bureau;		

	From the INTERNATIONAL SEARCHING AUTHORITY	PCT		
	To: WOLF, GREENFIELD & SACKS, P.C. Attn. GATES, Edward R. 600 Atlantic Avenue Boston, Massachusetts 02210 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)		
		Date of mailing (day/month/year) 30/11/2000		
	Applicant's or agent's file reference			
	H0535/7010W0	FOR FURTHER ACTION See paragraphs 1 and 4 below		
	International application No.	International filing date (day/month/year)		
I	PCT/US 00/ 20210	24/07/2000		
	PERICOR SCIENCE INC.			
va	The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims When? The time limit for filing such amendments is normal International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the account	s of the International Application (see Rule 46): Ily 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.		
7	2. X The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under		
	3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that		
	the protest together with the decision thereon has been applicant's request to forward the texts of both the protest.	transmitted to the International Bureau together with the		
	no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
	4. Further action(s): The applicant is reminded of the following:			
	Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
	Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 more	al preliminary examination must be filed if the applicant nths from the priority date (in some Offices even later).		
	Within 20 months from the priority date, the applicant must perforn before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	demand or in a later election within 19 months from the		
	Name and mailing address of the International Searching Authority	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Claudia Aragone		

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of the Authority may be indicated by the applicant on the line below:

IPEA/US

## PCT

JCO4 Rec'd PCT/PTO 0 9 FEB 2001

CHAPTER II

#### DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible states (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA / US		Date of Receipt of	STREMANDPIO 09 FEB 2001	
Box No. I IDENTIFICATION OF	THE INTERNATIONAL A	APPLICATION	Applicant's or agent's file reference H0535/7010WO	
anternational Application No. PCT/US00/20210	International Filing Dat 24 July 2000 (24.07.00)		(Earliest) Priority date (day/month/year) 22 July 1999 (22.07.99)	
Title of Invention LINKAGE OF AGENTS TO TISSUE				
Box No. II APPLICANT(S)				
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) PERICOR SCIENCE, INC.			Telephone No.:	
One Kendall Square Building 600, PMB 299			Facsimile No.:	
Cambridge, Massachusetts 02139 United States of America			Teleprinter No.:	
State (that is, country) of nationality. US	:	State (that is, counti	ntry) of residence:	
Name and address: (Family name follo GREEN, Howard 82 Williston Street Brookline, Massachusetts 02146 United States of America		ntity, full official design	ation. The address must include postal code and name of country.)	
State (that is, country) of nationality: US  State (that is, con US  US		State (that is, counti	ry) of residence:	
Name and address: (Family name follor RANDO, Robert R. 60 Montvale Road Newton Center, Massachusetts (United States of America		ntity, full official design.	ation. The address must include postal code and name of country.)	
State (that is, country) of nationality US	/:	State (that is, count US	ry) of residence:	
□Further applicants are indicated or	n a continuation sheet.	J		

Form PCT/IPEA/401 (first sheet) (July 1998; reprint January 2000)

Express Mail Label No. EL681814066US

See Notes to the demand form

Sheet No. 2

International application No. PCT/US00/20210

B <sub>0</sub> x N <sub>0</sub> . III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The following person is ⊠ agent □ common representative			
And And has been appointed earlier and represents the applicant(s) also for international preliminary examination.  is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.  is hereby appointed, specifically for the procedure before the International Preliminary Examining Attorney, in addition to the agent(s)/common representative appointed earlier.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.: (617) 720-3500		
Gates, Edward R. Wolf, Greenfield & Sacks, P.C.	Facsimile No.: (617) 720-2441		
600 Atlantic Avenue Boston, Massachusetts 02210 United States of America	Teleprinter No.:		
Address for Correspondence: Mark this check box where no agent or common representate to indicate a special address to which correspondence should be sent.	esentative is/has been appointed and the space above is used		
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION			
Statement concerning amendments:*			
1. The applicant wishes the international preliminary examination to start on the basis of:			
★ the international application as originally filed			
the description as originally filed as amended under Article 34			
the claims  as originally filed  as amended under Article 19 (together with any accom  as amended under Article 34	panying statement)		
the drawings as originally filed as amended under Article 34	·		
2.   The applicant wishes any amendment to the claims under Article 19 to be consider.	ered as reversed.		
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This check-box may be marked only where the time limit under Article 19 has not yet expired.)			
* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.			
Language for the purposes of international preliminary examination: English  which is the language in which the international application was filed. which is the language of a translation furnished for the purposes of international search. which is the language of publication of the international application which is the language of the translation to be furnished for the purposes of international preliminary examination.			
Box No. V ELECTION OF STATES			
The applicant hereby elects all eligible States (that is, all States which have been design excluding the following States which the applicant wishes not to elect:	ated and which are bound by Chapter II of the PCT)		
Form PCT/IPEA/401 (second sheet) (July 1998; reprint January 2000)	See Notes to the demand form		

512973.1

	•				
		Sheet No. 3		International application No PCT/US00/20210	
Box No.	VI CHECKLIST				
The dem Box No.	and is accompanied by the following eleme IV, for the purposes of international prelim	nts, in the language inary examination:	referred to in		onal Preliminary uthority use only
1.	translation of international application	:	sheets	Received	not received
2.	amendments under Article 34	:	sheets		
3.	copy (or, where required, translation) of amendments under Article 19	:	sheets		
4.	copy (or, where required, translation) of statement under Article 19	:	sheets		
5.	letter	:	sheets		
6.	other (specify)	:	sheets		
The dem	and is also accompanied by the item(s) mar	ked below:			
1. ☑ fee calculation sheet  4. ☐ statement explaining lack of signature				ıre	
2. 🗆	5 D nucleotide and or amino acid sequence listing in computer readable			ace listing in computer readable	
3.	copy of general power of attorney; reference number, if any:		6. Souther (specify): Transmittal letter Postcard		
Box No.	VII SIGNATURE OF APPLICANT, AC	GENT OR COMM	ON REPRESE	NTATIVE	
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).  Solution of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).  Gates, Edward R.					
بر • ا	For Internatio	nal Preliminary Exa	mining Authorit	v use only	
Γ.		<b>, -</b>	<b>6</b>		
1.	Date of actual receipt of		AT/DTA -		`

1.	Date of actual receipt of DEMAND:	JGO4 Rec'd PCT/PTO	0 9 FEB 2001	(09.02.01)
2.	Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):		·	
3. 🗆	The date of receipt of the demand is AFTE from the priority date and item 4 or 5, belo		☐The app	licant has been informed accordingly.
4. 🗆	4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.			
5. 🗆	5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.			
For International Bureau use only				
Demar	d received from IPEA on:			
Form P	CT/IPEA/401 (last sheet) (July 1998; reprint	January 2000)	S	ee Notes to the demand form

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY **PCT** To: EDWARD R. GATES WOLF, GREENFIELD & SACKS. P.C. 600 ATLANTIC AVENUE WRITTEN OPINION **BOSTON MA 02210** (PCT Rule 66) Date of Mailing (day/month/year) 30 JUL 2001 Applicant's or agent's file reference REPLY DUE within ONE months from the above date of mailing HO535/7010WO International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/US00/20210 24 JULY 2000 22 JULY 1999 International Patent Classification (IPC) or both national classification and IPC Please See Supplemental Sheet. Applicant PERICOR SCIENCE, INC. 1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority. 2. This opinion contains indications relating to the following items: Basis of the opinion II Priority Non-establishment of opinion with regard to novelty, inventive step or industrial applicability III Lack of unity of invention Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application 3. The applicant is hereby invited to reply to this opinion. When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension., see Rule 66.2(d).

<ol> <li>The final date by which the international preliminar examination report must be established according to</li> </ol>		22 NOVEMBER 2001	
Name and mailing address of the IPEA/US	Authorized officer	TERRY J. DEY	P

For the form and the language of the amendments, see Rules 66.8 and 66.9.

For an additional opportunity to submit amendments, see Rule 66.4.

For an informal communication with the examiner, see Rule 66.6.

By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3.

For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

Commissioner of Patents and Trademarks Washington, D.C. 20231

Facsimile No. (703) 305-3230

How?

Also

DAVID M. NAFF PARALEGAL SPECIALIST

Telephone No.

## WRITTEN OPINION

International	application	No.
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#### PCT/US00/20210

1. Ba	isis of the opin	ion		
1. With	regard to the ele	ments of the internat	ional application: *	
$\mathbf{x}$	•	al application as		
	the description	1:		
X	pages			as originally filed
	pages	MONTH		, filed with the demand
	pages		, filed with the letter of	
			,	
X	the claims:			
	pages	83-93		
	pages		, as amended (together with any	
	pages	NONE		, filed with the demand
	pages	NONE	, filed with the letter of	
F==1	the destrings			
X	the drawings:	1		
	pages			as originally filed
	pages		, filed with the letter of	
	pages	TOTAL	, filed with the fetter of	
$\overline{\mathbf{x}}$	the sequence li	isting part of the d	escription:	
لثنا	pages	NONE		as originally filed
		NONE		, filed with the demand
			, filed with the letter of	
	the language o	of publication of the	mished for the purposes of international search (the international application (under Rule 48.3(b)) ished for the purposes of international preliminary examples.	).
3. With	h regard to any r	nucleotide and/or a of the sequence listi	mino acid sequence disclosed in the international appling:	plication, the written opinion was
	contained in th	ne international ap	oplication in printed form.	
	filed together	with the internation	onal application in computer readable form.	
===	_		Authority in written form.	
			authority in computer readable form.	
لـــا		-		peyond the disclosure in the
<u></u>	international ap	plication as filed l	tly furnished written sequence listing does not go bas been furnished.	,
	The statement the been furnished.	nat the information	recorded in computer readable form is identical to the	e writen sequence listing has
4. X	The amendment	nts have resulted	in the cancellation of:	
	X the descri	ription, pages	NONE	
	T T	ns, Nos.	NONE	
		rings, sheets/ <del>fig</del>	NONE	
5.	This opinion has	s been drawn as if (	some of) the amendments had not been made, since the indicated in the Supplemental Box (Rule 70.2(c)).	hey have been considered to go
	acement sheets wh is opinion as "oris		hed to the receiving Office in response to an invitation u	nder Article 14 are referred to

### WRITTEN OPINION

International application No. PCT/US00/20210

III. No	n-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been and will not be examined in respect of:					
X	the entire international application.				
	claims Nos.				
	because:				
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify).				
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify).				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
X	no international search report has been established for said claims Nos. 1-73.				
	tten opinion cannot be drawn due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard ded for in Annex C of the Administrative Instructions:				
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				





#### WRITTEN OPINION

International application No.

PCT/US00/20210

Supplementa	ıl B	ox
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

#### TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

#### CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): A61K 38/43, 7/42, 38/46, 7/00, 9/14; C12N 11/02, 11/08, 11/06; C07K 17/02, 17/06, 17/08 and US Cl.: 424/94.1, 59, 94.6, 401, 489; 435/177, 180, 181; 530/812, 815, 816